

Evaporation retardant and finishing aid

Description of Product

MASTERKURE® 111CF is an evaporation retardant and finishing aid that helps produce high quality concrete finishes. It retards water evaporation, regulates the surface condition of the slab, and permits better adherence to finishing schedules.

Since MASTERKURE® 111CF retards evaporation, it is especially effective in combating rapid drying conditions (high concrete and/or ambient temperatures, low humidity, high winds, direct sunlight, work in heated interiors during cold weather, etc.)

Fields of Application

MASTERKURE® 111CF is recommended for use with plain concrete.

Features and Benefits

- MASTERKURE® 111CF reduces surface moisture evaporation by approximately 80% in wind and approximately 40% in sunlight. It has no effect on the cement hydration process. Concrete strength (early and ultimate), abrasion resistance and durability are not altered, except for the improvement in overall quality resulting from control of rapid evaporation.
- MASTERKURE® 111CF gives concrete a better finish with less work. It eliminates or reduces crusting, stickiness and underlying sponginess, which often results in unevenness

and poor surface texture. The surface closes better under the trowel.

- Reduces and, in many instances, eliminates plastic shrinkage cracking and wind crusting of flat surfaces. Also supplements the recommended practises for hot weather concreting. Under some conditions, MASTERKURE® 111CF will provide the necessary safeguard against the ill effects of evaporation.
- Allows lower workability and lower unit water content in concrete used for flatwork, since MASTERKURE® 111CF virtually eliminates the need to add extra mixing water to compensate for rapid evaporation during finishing.
- Encourages the use of air-entrained concrete, required for durability and workability, in situations where air entrainment might be avoided for fear that it would increase concrete's susceptibility to crusting and stickiness under drying conditions.
- Increases the amount of surface handled per finisher, even under rapid drying conditions, as the surface remains plastic and workable for a longer time. Thus work can proceed whereas, without MASTERKURE® 111CF, it might be postponed to avoid finishing problems.
- Timing of the various finishing operations is less critical, thus reducing overall cost.

Technical Data/Typical Properties

Appearance	Yellow, fluorescent liquid
Specific gravity @ 20°C	0.995 g/cm ³
Viscosity:	± 10 cps (mPas)
Soluble:	In water
Temperature resistance:	-4 to +50°C
Application temperature:	> +5°C
Toxicity:	Neutral

The Chemical Company

Application Procedure

Apply MASTERKURE® 111CF with an ordinary, garden-type sprayer or with the equipment used for application of a spray-on, membrane-type curing compound.

MASTERKURE® 111CF contains a fluorescent colour tint, which disappears completely upon drying. When sprayed onto the surface immediately after screeding, MASTERKURE® 111CF forms a monomolecular film. This film is easily distinguished from untreated surfaces by its green-yellow colour in the presence of surface moisture and ultraviolet rays (sunlight or artificial lighting).

The residue remaining on the surface of hardened concrete does not impair bonding or alter the colour appearance. The protective shield usually lasts as long as the concrete remains plastic, despite succeeding floating and towelling operations.

Coverage

One litre of MASTERKURE® 111CF, mixed with 9 litres of water, yields 10 litres of sprayable solution, which will cover 50 to 100m² of fresh concrete. If more than one application is made, as under adverse drying conditions, the quantity required will be increased accordingly.

Packaging

MASTERKURE® 111CF is supplied in 25 litre containers and 210 litre drums.

Storage

Store in cool conditions away from direct sunlight. Protect from frost.

Shelf Life

MASTERKURE 111CF will have a shelf life of 12 months when stored in unopened containers according to manufacturer's instructions.

Watch Points

- MASTERKURE® 111CF is NOT a curing agent. Concrete treated with this product must still be cured!
- MASTERKURE® 111CF reduces evaporation only while concrete is in its plastic state. It is not a substitute for early curing of hardened concrete, nor does it alter the effectiveness of membrane type, curing compounds.
- If circumstances provoke fast drying, apply MASTERKURE® 111CF several times, i.e. after each working phase. It is not required in case of a high moisture level and/or low temperature or on concrete that shows a lot of bleeding water.
- Any residue remaining from spillage or spraying of MASTERKURE® 111CF concentrate on the surface of hardened concrete should not be allowed to dry. Wipe it up immediately, then rinse the surface with water.
- If the residue is allowed to dry, a red-brown stain may appear. To remove it, place a cloth saturated in household type chlorinated bleach onto the stain, then cover it with plastic to retard evaporation. After approximately one hour, the stain should disappear completely. Rinse the area with water.

Health & Safety

Avoid contact with the eyes. If the product gets into the eye, rinse with clear water for several minutes and seek medical attention. A Material Safety Data Sheet for this product is available on request

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MASTERKURE[®] 111CF, BASF Construction Chemicals (UK) Limited, Version 1**Health and Safety**

*For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

The following general comments apply to all products.

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs, (which may also be tainted with vapour until the product is fully cured and dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Keep away from children and animals. Reseal containers after use.

Spillage

Chemical products can cause damage; clean spillage immediately.

DISCLAIMER

"BASF Construction Chemicals (UK) Limited" (the Company) endeavours to ensure that advice and information given in Product Data Sheets, Method Statements and Material Safety Data Sheets (all known as Product Literature) is accurate and correct. However, the Company has no control over the selection of its products for particular applications. It is important that any prospective customer, user or specifier, satisfies him/her-self that the product is suitable for the specific application. In this process, due regard should be taken of the nature and composition of the background/base and the ambient conditions both at the time of laying/applying/installing the material and when the completed work is to be brought into use.

Accordingly, no liability will be accepted by the Company for the selection, by others, of a product, which is inappropriate to a particular application.

Products are sold subject to the Company's standard conditions of sale and all customers, users and specifiers, should ensure that they examine the Company's latest Product Literature.